DESCRIPTION AND RATING

PENTODE GL-6134

FIVE-STAR TUBE

★★★★★

The GL-6134 is a sharp-cutoff pentode intended for service as a wide-band radio-frequency or intermediate-frequency amplifier or as a video-amplifier. The tube is specially designed to assure dependable life and reliable service under the exacting conditions encountered in mobile and aircraft applications. Features include a high degree of mechanical strength and a heater-cathode construction designed to withstand many-thousand cycles of intermittent operation. Electrically and physically, the GL-6134 is a replacement for the 6AC7.

TECHNICAL INFORMATION

GENERAL

Electrical

Cathode - Coated Unipotential

Heater Voltage (A-c or D-c)	6.3	Volts
Heater Current	0.45	Ampere
Direct Interelectrode Capacitances*		
Grid-No. 1 to Plate, maximum	0.015	uuf
Input	11	uuf
Output	5.0	uuf

Mechanical

Mounting Position - Any
Envelope - MT-8, Metal Shell
Base - B8-21, Small Wafer Octal 8-Pin

MAXIMUM RATINGS

Electrical - Design-center Values

Plate Voltage	300	Volts
Screen Supply Voltage	300	Volts
Screen Voltage - See Screen Rating Chart		
Plate Dissipation	3.0	Watts
Screen Dissipation	0.38	Watt
Heater-cathode Voltage		
Heater Positive with Respect to Cathode	90	Volts
Heater Negative with Respect to Cathode	90	Volts
Grid-No. 1 Circuit Resistance with Cathode Bias†		
Fixed Screen Voltage	0.25	Megohm
Series Screen Resistor	0.5	Megohm

Mechanical

Peak Impact Acceleration‡	450	G

CHARACTERISTICS AND TYPICAL OPERATION

Class A_1 Amplifier

Plate Voltage	300	Volts
Suppressor Voltage§	0	Volt
Screen Voltage	150	Volts
Cathode-bias Resistor	160	Ohms
Plate Resistance, approximate	1.0	Megohm
Transconductance	9000	Micromhos

CHARACTERISTICS AND TYPICAL OPERATION (CONT'D)

Class A_1 Amplifier (Cont'd)

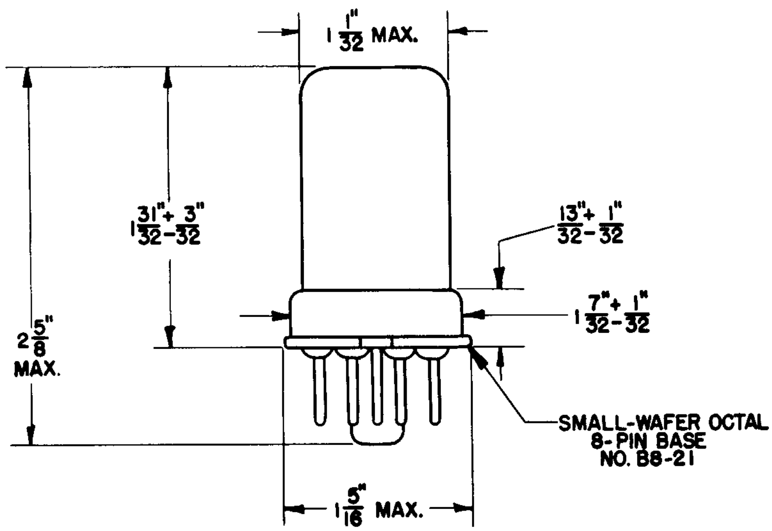
Plate Current	10	Milliamperes
Screen Current	2.5	Milliamperes
Grid-No. 1 Voltage, approximate		
Ib = 10 Microamperes	-10	Volts

* With pin 1 connected to pin 5.

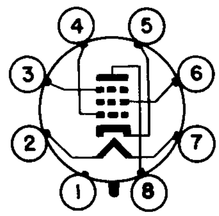
† Operation with fixed bias is not recommended.

‡ Forces in any direction as applied by the Navy-type, High Impact (flyweight) Shock Machine for Electronic Devices or its equivalent.

§ In radio-frequency and intermediate-frequency stages, the suppressor should be connected directly to ground to minimize feedback.



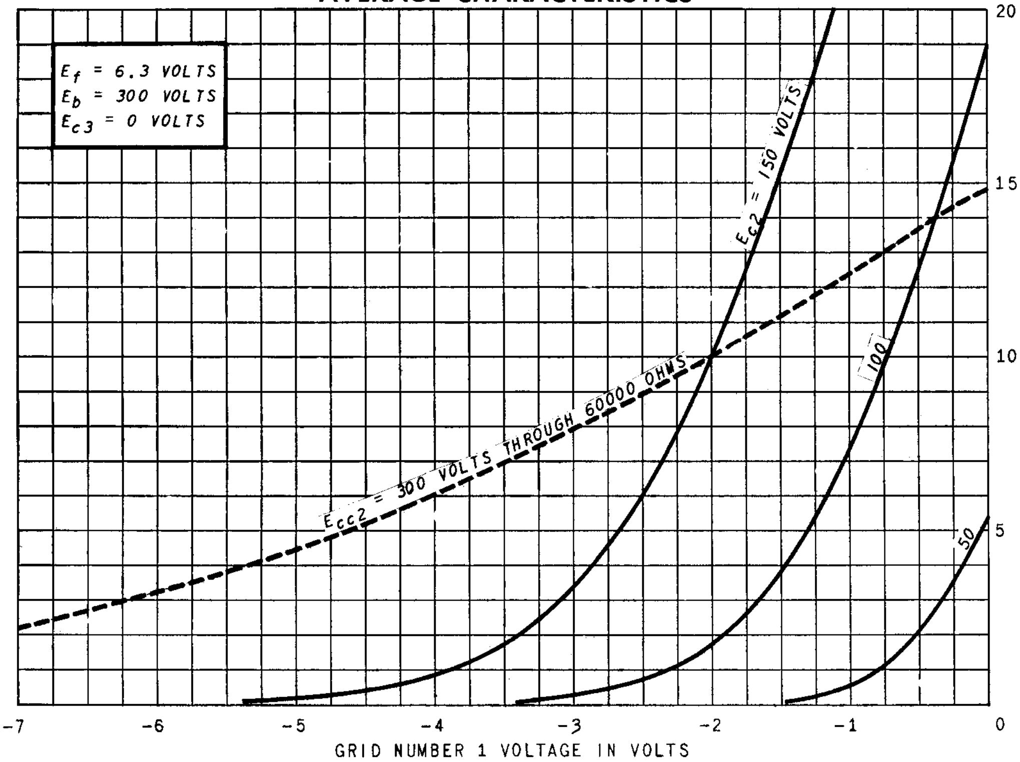
BASING DIAGRAM



8N

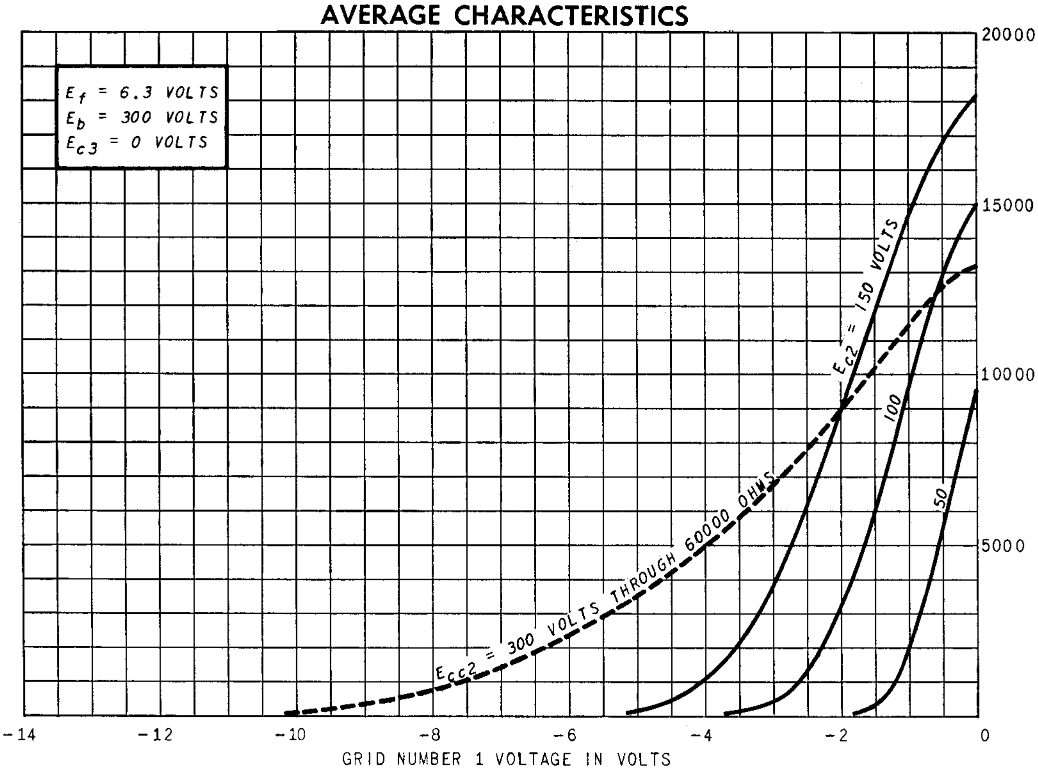
PIN 1: SHELL AND INTERNAL SHIELD
PIN 2: HEATER
PIN 3: GRID NUMBER 3 (SUPPRESSOR)
PIN 4: GRID NUMBER 1
PIN 5: CATHODE
PIN 6: GRID NUMBER 2 (SCREEN)
PIN 7: HEATER
PIN 8: PLATE

AVERAGE CHARACTERISTICS



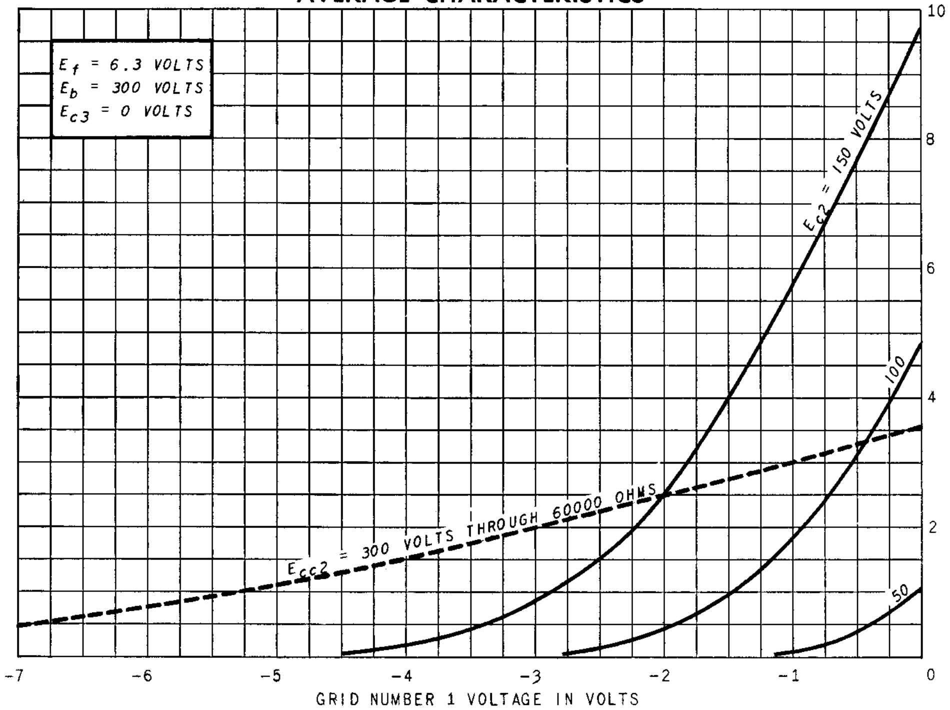
March 27, 1953

AVERAGE CHARACTERISTICS



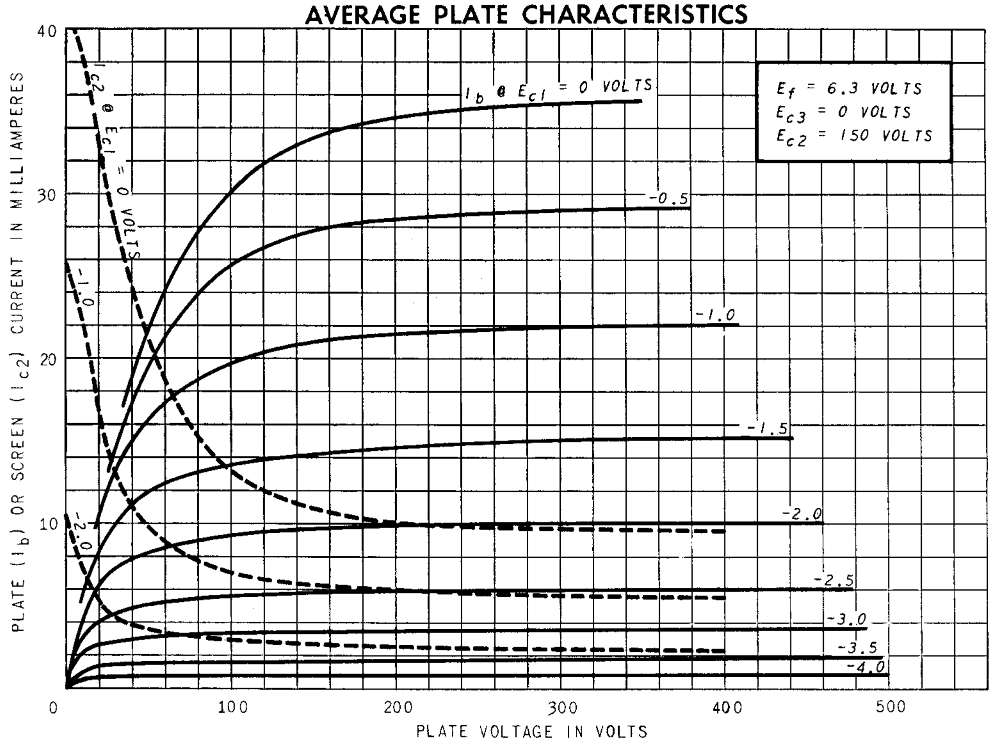
March 27, 1953

AVERAGE CHARACTERISTICS



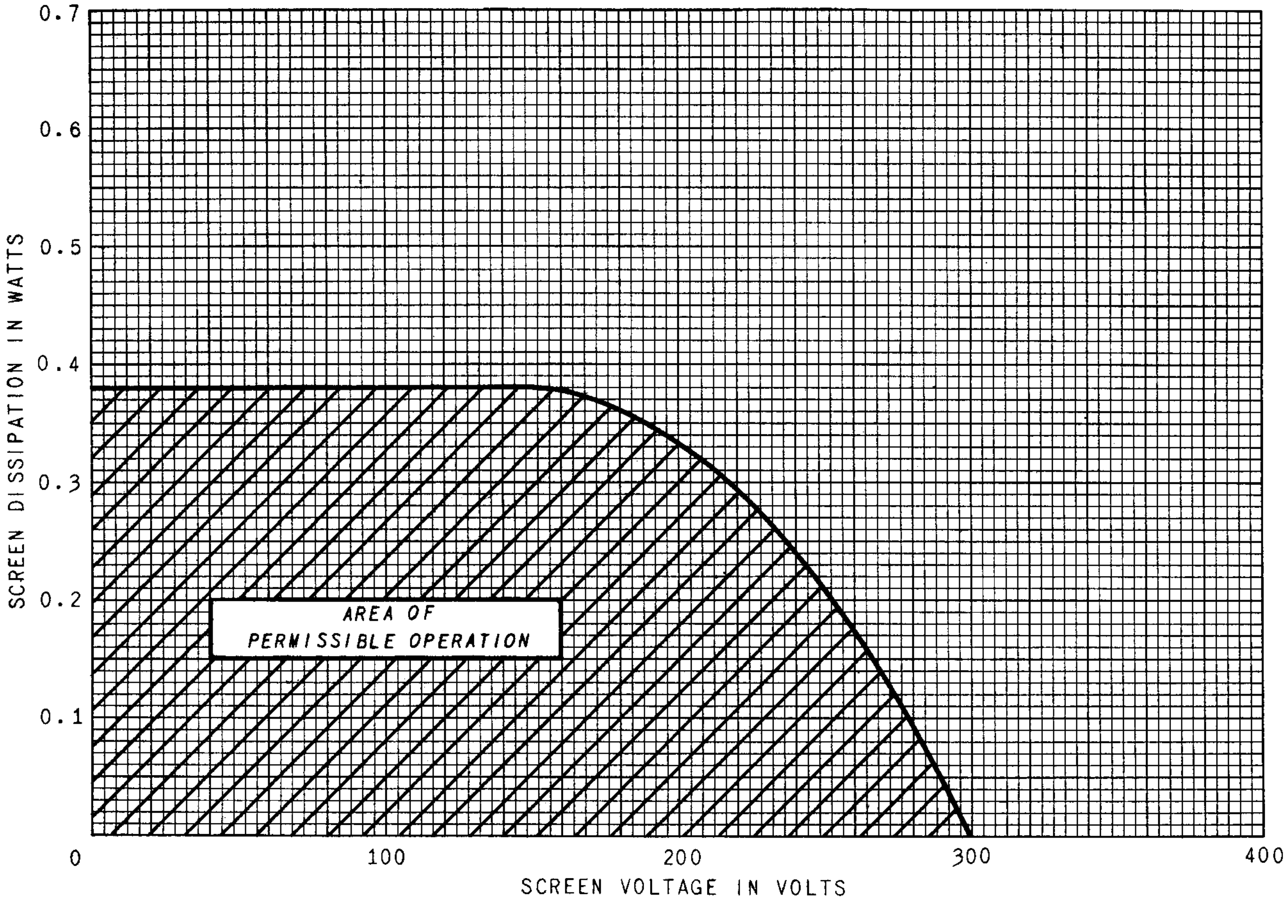
March 27, 1953

AVERAGE PLATE CHARACTERISTICS



March 27, 1953

SCREEN RATING CHART



March 27, 1953

TUBE DEPARTMENT

GENERAL ELECTRIC

Schenectady 5, N. Y.

4-53 (5M)

PRINTED IN U.S.A.